

PATENT APPLICATION

File No: 00-56

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Wayne R. Kindsvogel, Stavros Topouzis

Serial No.

09/925,055

Group Art Unit

1644

Examiner

: August 8, 2001

Filed For

: SOLUBLE ZCYTOR11 CYTOKINE RECEPTORS

Date Submitted

: October 15, 2001

RESPONSE TO NOTICE TO FILE MISSING PARTS

Box Missing Parts Commissioner for Patents Washington, DC 20231

Sir:

Respectfully submitted herewith is the Combined Declaration and Power of Attorney signed and dated by Applicants for the above-captioned application. This submission is in response to the Notice to File Missing Parts dated October 4, 2001 (a copy thereof is attached hereto) and is being filed within two months of the date of the letter.

Also submitted herewith are a corrected sequence listing and a substitute sequence listing diskette. This submission is in response to the aforementioned Notice to File Missing Parts dated October 4, 2001.

In each case the sequences were designated "Artificial Sequence." Explanation of the source of genetic material is required (sections <220> to <223>), but was mistakenly omitted. The changes, per the Sequence Listing Error Summary, Item 11, (attached to Notice to File Missing Parts dated October 4, 2001), were made in accordance with the sequence listing rule 37 CFR §1.823, and with support in the originally filed application as follows:

• SEQ ID NO. 30 – Supported in SEQ ID NO. 29

These changes are supported in the originally filed application and hence include no new matter.

The content of the above-captioned application and the computer readable copy is the same and, where applicable, includes no new matter as required by 37 CFR 1.821-1.825.

Applicants claim small entity status. Please charge the total fee, estimated to be \$65.00, to ZymoGenetics, Inc., Deposit Account No. 26-0290. A duplicate of this sheet is enclosed.

Respectfully submitted,

Jennifer K. Johnson, J.D. Registration No. 43,696



United States Patent and Trademark Office

COMMISSIONER FOR FAIENTS UNITED STATES PATENT AND TRADEMARK OFFICE WASHINGTON, D.C. 2023 www.uspto.gov

FILING/RECEIPT DATE FIRST NAMED APPLICANT ATTORNEY DOCKET NUMBER APPLICATION NUMBER

09/925,055

08/08/2001

Wayne R. Kindsvogel

00 - 56

 $T_{ij} \geq \frac{1}{2}$ ZymoGenetics, Inc. 1201 Eastlake Avenue East Seattle, WA 98102

CONFIRMATION NO. 2607 FORMALITIES LETTER *OC000000006842991*

Date Mailed: 10/04/2001

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given TWO MONTHS from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(I) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 65.
- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(q), 1.825(b), or 1.825(d).

For questions regarding compliance to these requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
- To Purchase Patentin Software, call (703) 306-2600
- For Patentin Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

Customer Service Center

Initial Patent Examination Division (703) 308-1202
PART 2 - COPY TO BE RETURNED WITH RESPONSE

CARREL /BXSA

PATENT APPLICATION

File No: 00-56

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Wayne R. Kindsvogel, Stavros Topouzis

Serial No.

09/925,055

Group Art Unit

: 1644

Examiner

Filed

: August 8, 2001

For

: SOLUBLE ZCYTOR11 CYTOKINE RECEPTORS

CERTIFICATE OF MAILING UNDER 37 CFR 1.8(a)

Box Missing Parts Commissioner for Patents Washington, DC 20231

Sir:

I hereby certify that the attached correspondence comprising:

- 1. Return Postcard
- 2. Response to Notice to File Missing Parts (in duplicate)
- 3. Copy of Notice to File Missing Parts
- 4. Executed Combined Declaration and Power of Attorney
- 5. Sequence Listing Diskette compliant with 37 CFR 1.821-1.825
- 6. Paper Copy of Sequence Listing

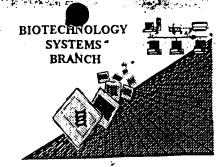
is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Box Missing Parts Commissioner for Patents Washington, DC 20231

on October 15, 2001.

arianne Carello

RAW SEQUENCE LISTING ERROR REPORT



0 4 2001

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/925,055Source: 01/25Date Processed by STIC: 08/16/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 c-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 c-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/925,05	5										
ATTN: NEW RULES CASES	S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SO	FTWARE										
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."											
2Invalid Line Length	th The rules require that a line not exceed 72 characters in length. This includes white spaces.											
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers use space characters, instead.	;										
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Plea ensure your subsequent submission is saved in ASCII text.	sc										
5Variable Length	Sequence(s) contain n's or Xaa's représenting more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of ea residue having variable length and indicate in the <220>-<223> section that some may be missing	ch g.										
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino a sequences(s) Normally, PatentIn would automatically generate this section from to previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	he 1 to										
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this headin (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped											
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped seque	nces.										
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped se <210> sequence id number <400> sequence id number 000	quence.										
9Usc of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represent.	escnts.										
Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknis Artificial Sequence	or own or										
	Sequence(s) 30 missing the <220> "Feature" and associated numeric identifiers and respond Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Federal Register)	or or										
"bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk											

AMC - Biotechnology Systems Branch - 06/04/2001

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

DATE: 08/16/2001

TIME: 13:28:58

OIPE

Input Set : A:\00-56.txt Output Set: N:\CRF3\08162001\I925055.raw Does Not Comply Corrected Diskette Needed 4 <110> APPLICANT: Kindsvogel, Wayne R. Topouzis, Stavros Su page 6 of 7A 7 <120> TITLE OF INVENTION: SOLUBLE ZCYTOR11 CYTOKINE RECEPTORS 9 <130> FILE REFERENCE: 00-56 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/925,055 C--> 11 <141> CURRENT FILING DATE: 2001-08-08 11 <150> PRIOR APPLICATION NUMBER: US 60/223,827 12 <151> PRIOR FILING DATE: 2000-08-08 14 <150> PRIOR APPLICATION NUMBER: US 60/250,876 15 <151> PRIOR FILING DATE: 2000-12-01 17 <160> NUMBER OF SEQ ID NOS: 35 19 <170> SOFTWARE: FastSEQ for Windows Version 3.0 21 <210> SEQ ID NO: 1 22 <211> LENGTH: 2831 23 <212> TYPE: DNA 24 <213> ORGANISM: Homo sapien 26 <220> FEATURE: 27 <221> NAME/KEY: CDS 28 <222> LOCATION: (34)...(1755) 30 <400> SEQUENCE: 1 54 tagaggccaa gggagggctc tgtgccagcc ccg atg agg acg ctg ctg acc atc 32 Met Arg Thr Leu Leu Thr Ile 33 ttg act gtg gga tcc ctg gct gct cac gcc cct gag gac ccc tcg gat 102 Leu Thr Val Gly Ser Leu Ala Ala His Ala Pro Glu Asp Pro Ser Asp 37 150 39 ctg ctc cag cac gtg aaa ttc cag tcc agc aac ttt gaa aac atc ctg Leu Leu Gln His Val Lys Phe Gln Ser Ser Asn Phe Glu Asn Ile Leu 4 O 30 198 acq tqq gac agc ggg cca gag ggc acc cca gac acg gtc tac agc atc 43 Thr Trp Asp Ser Gly Pro Glu Gly Thr Pro Asp Thr Val Tyr Ser Ile 44 50 45 45 246 gag tat aag acg tac gga gag agg gac tgg gtg gca aag aag ggc tgt Glu Tyr Lys Thr Tyr Gly Glu Arg Asp Trp Val Ala Lys Lys Gly Cys 49 60 cag egg ate ace egg aag tee tge aac etg acg gtg gag acg gge aac 294 51 Gin Arg Ile Thr Arg Lys Ser Cys Asn Leu Thr Val Glu Thr Gly Asn 52 80 75 ctc acg gag ctc tac tat gcc agg gtc acc gct gtc agt gcg gga ggc 342 56 Leu Thr Glu Leu Tyr Tyr Ala Arg Val Thr Ala Val Ser Ala Gly Gly 57 90 390 59 cgg toa goo acc aag atg act gac agg tto ago tot otg cag cac act 60 Arg Ser Ala Thr Lys Met Thr Asp Arg Phe Ser Ser Leu Gln His Thr 110 438 acc ctc aag cca cct gat gtg acc tgt atc tcc aaa gtg aga tcg att Thr Leu Lys Pro Pro Asp Val Thr Cys Ile Ser Lys Val Arg Ser Ile 64 65 125

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/925,055

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/925,055

DATE: 08/16/2001 TIME: 13:28:58

Input Set : A:\00-56.txt
Output Set: N:\CRF3\08162001\I925055.raw

67 68 69	_			gtt Val					-			_	-		-		486
71 72 73				acc Thr 155	_							-					534
75 76 77			_	gtc Val		_				-							582
79 80 81				gag Glu													630
83 84 85				att Ile	Cys												678
87 88 89				gtg Val													726
91 92 93				ttc Phe 235													774
95 96 97				tac Tyr													822
																	076
99 100 101	_			_	_	-	_	Thr		_	_		Arg			cag Gln	870
100	Leu gag	Asr 265 cac	Val gtc	Gĺn	Arg	Val cct	Leu 270 gtc Val	Thr ttt	Phe gac	Gln	Pro	Leu 275 ggc Gly	Arg	Phe ago	: Ile : agt	Gln ctg	918
100 101 103 104 105 107 108	gag Glu 280 gcc	Asr 265 cac His	Val gtc Val	GÎn ctg	Arg atc Ile cag	Val cct Pro 285 tac	Leu 270 gtc Val	Thr ttt Phe cag	gac Asp	Gln ctc Leu agg	ago Ser 290 gtg	Leu 275 ggc Gly tct	Arg	Phe ago Ser	: Ile : agt : Ser : agg	Cln ctg Leu 295 gag Glu	
100 101 103 104 105 107 108 109 111 112	gag Glu 280 gcc Ala	Asr 265 cac His cac Glr	Val gtc Val cct Pro	Gln ctg Leu gtc	Arg atc Ile cag Gln 300 cca	Val cct Pro 285 tac Tyr	Leu 270 gtc Val tcc Ser	Thr ttt Phe cag Gln cat	Phe gac Asp atc	ctc Leu agg Arg 305 ctg	ago Ser 290 gtg Val	Leu 275 ggc Gly tct Ser	Argonia Argonia Argonia Control Argonia Contro	Phe ago Ser ccc Pro	agt Ser agg Arg 310 tac	Cln ctg Leu 295 gag Glu tta	918
100 101 103 104 105 107 108 109	gag Glu 280 gcc Ala ccc Pro	Asr 265 cac His cac Glr gca Ala	Valion Va	Gln ctg Leu gtc Val gct Ala 315 gac Asp	atc Ile cag Gln 300 cca Pro	Val cct Pro 285 tac Tyr cag Gln	Leu 270 gtc Val tcc Ser cgg Arg	Thr ttt Phe cag Gln cat His	gac Asp atc Ile agc Ser 320 cag	ctc Clark ctc Arg 305 ctg Leu	e ago Ser 290 gtg Val tcc Ser	Leu 275 ggc Gly tct Ser gag Glu	Argonia Argonia Argonia Gly gga Gly atc Ile	Phe ago Ser coo Pro acc Thr 325 cca Pro	agt ser agg Arg 310 tac	Cln ctg Leu 295 gag Glu tta	918 966
100 101 103 104 105 107 108 109 111 112 113 115 116 117 119 120	gag Glu 280 gcc Ala ccc Pro	Asr 265 cac His cac Glr gca Ala cac Glr	y cct gga gga gga gga gga gcca gcca gcca g	Gln ctg Leu gtc Val gct Ala 315 gac Asp	Arg atc Ile cag Gln 300 cca Pro atc Ile cca	Val cct Pro 285 tac Tyr cag Gln tcc Ser	Leu 270 gtc Val tcc Ser cgg Arg atc Ile	Thr ttt Phe cag Gln cat His ctc Leu 335 tat Tyr	gac Asp atc Ile agc Ser 320 cag	e Gin c ctc Leu agg Arg 305 ctg Leu ccc	ago Ser 290 y Val tcc Ser tcc	Leu 275 ggc Gly tct Ser gag Glu aac Asn	a Arg	Phe ago Ser coo Pro acc Thr 325 coa Pro	agt agt Ser agg Arg 310 tac Tyr cct	ctg Leu 295 gag Glu tta Leu ccc Pro	918 966 1014
100 101 103 104 105 107 108 109 111 112 113 115 116 117 120 121 123 124	gagg Glu 280 gcc Ala ccc Pro ggg Gly cag Gly Gly Gly	Asr 265 cac His cac Glr atc 345 ccc Pro	y cct y cct y cct y cct y cca y cca y cca y cca y cca y cca y cca y cca y cca y cct y cca y cct y cca y cct y cca y cct y cca y cct y cca y cct y cct	Gln ctg Leu gtc Val gct Ala 315 gac Asp	atc Ile cag Gln 300 cca Pro atc Ile cca Pro tat	Val cct Pro 285 tac Tyr cag Gln tcc Ser ctg Leu gca	Leu 270 gtc Val tcc Ser cgg Arg atc Ile tcc Ser 350 cct Pro	Thr ttt Phe cag Gln cat His ctc Leu 335 tat Tyr cag	gac Asp atc Ile agc Ser 320 cag Gln gcc Ala	e Gin c ctc Leu agg 305 ctg Leu ccc Pro	ago Ser 290 Yal Yal Ser tco Ser Asn	Leu 275 ggc Gly tct Ser gag Glu aac Asn gct Ala 355 gaa Glu	a Arg	Phe ago Ser ccc Thr 325 cca Pro	agt agt Ser agg Arg 310 tac Tyr cct Pro	ctg Leu 295 gag Glu tta Leu ccc Pro gtc Val	918 966 1014 1062
100 101 103 104 105 107 108 109 111 112 113 115 116 117 119 120 121 123	gagg Glu 280 gcc Ala ccc Pro ggg Gly cag Gly 360 ttc	Asr 265 cac His cac Glr atc 345 ccc tac	y Val	Gln ctg Leu gtc Val gct Ala 315 gac Asp tcc Ser	atc Ile cag Gln 300 cca Pro atc Ile cra Pro tat Tyr cag	Val cct Pro 285 tac Tyr cag Gln tcc Ser ctg Leu gca Ala 365 gcc Ala	Leu 270 gtc Val tcc Ser cgg Arg atc Ile tcc Ser 350 cct Pro	Thr ttt Phe cag Gln cat His ctc Leu 335 tat Tyr cag Gln tct	gac Asp atc Ile agc Ser 320 cag Gln gcc Ala gtg Val	e Gin ctc Leu agg 305 ctg Leu ccc Pro cca Pro	ago Ser 290 gtg Val Ser tcc Ser Asn 200 700 700 700 700 700 700 700 700 700	Leu 275 ggc Gly tct Ser gag Glu aac Asn gct Ala 355 gaa Glu	Argania Argani	Phe ago Ser ccc Thr 325 cca Pro cct Pro caa Cct	agt agt Ser agg Arg 310 tac Tyr cct Pro gag Glu	ctg Leu 295 gag Glu tta Leu ccc Pro gtc Val cca Pro 375 gcc Ala	918 966 1014 1062 1110

RAW SEQUENCE LISTING

DATE: 08/16/2001 PATENT APPLICATION: US/09/925,055 TIME: 13:28:58

Input Set : A:\00-56.txt

Output Set: N:\CRF3\08162001\I925055.raw

132	Pro	Gln	Ala	Thr	Pro	Asp	Ser	Trp	Pro	Pro	Ser	Tyr	Gly	Val 405	Cys	Met	
133 135	(1 2 2	aat	tot		222	aac	tcc	ccc	-	aaa	aca	ctt	tet		cct	222	1302
136							Ser										1302
137	Olu	Ory	410	O T Y	БуЗ	7100	001	415	1111	O L y	1111	пса	420	001		Lyo	
139	CaC	ctt		cct	aaa	aat	cag		cad	aaa	aaa	cca		act	ада	adc	1350
140							Gln										1005
141	1115	425	my	110	Бγυ	Ory	430	Dea	0111	Lyo	014	435	110	1120	J + J	001	
143	tac		tta	aat	aac	ctt	tct	cta	cad	aaa	ata		tac	tta	act	ato	1398
144							Ser										2000
145	440		200	0.1	0-1	445					450					455	
147		gaa	taa	caa	даа		aaa	tca	tta	cac		ccc	cta	aaa	att		1446
148							Lys										
149	014	014	501	01	460		-,-			465				1	470	-1-	
151	aca	gac	aga	aca		gac	сса	aat	ata		cac	aαt	aaa	aaa		aaa	1494
152							Pro										
153			9	475					480				1	485		- 1	
155	aca	cca	cad		cta	aag	ggc	cad		aaa	ctc	ctc	taa		atc	cag	1542
156							Gly										
157	1111	110	490	- 1 -	Deu	2,0	011	495		110			500	~ -			
159	atc	gag		cac	aaa	ato	tcc		cct	t.t.a	caa	cct		tcc	aat	сса	1590
160							Ser										
161	110	505	O T Y		110		510	204		200	04.,	515			~ — <u>1</u>		
163	tat		CCC	tica	gac	саа	ggt	cca	agt	ccc	taa		cta	ata	gag	tcc	1638
164							Gly										
165	520	001				525	1				530	1			•	535	
167		ata	tat	ccc	aaa		gaa	acc	aaq	agc	cca	acc	cct	σασ	acc	tca	1686
168							Glu										
169					540	_			-	545					550		
171	gac	cta	gag	caq	CCC	aca	gaa	ctq	gat	tct	ctt	ttc	aga	qqc	ctg	gcc	1734
174							Ğlu										
175	-			555					560					565			
177	ctq	act	ata	cag	tgg	gag	tcc	tgad	gggg	at c	ggaa	aaggo	et to	ggtgd	cttcc		1785
178	_		vaĺ	_													
179			570		-												
181	tccc	tgto	caa t	acco	cagt	gt ca	acato	ccttq	g gct	gtca	atc	ccat	gcct	gc d	ccato	gccaca	1845
182																atgcag	1905
183																cagegg	1965
184																aggcag	2025
185	aaat	gaca	agt q	gcaaq	ggagg	ga aa	atgca	aggga	aaa	ctaca	cgag	gtc	cagag	gee d	ccaco	etecta	2801.
186																ccagtt	2145
187																aggtgg	2205
188																agaacc	2265
189																ggaggg	2325
190	gtgt	ggc	ctg d	caget	catt	ic co	cage	caggo	g caa	actgo	cctg	acgt	tgca	acg a	atttc	cagett	2385
191	catt	cct	etg a	ataga	aacaa	aa go	egaaa	atgca	a ggt	ccad	ccag	ggag	gggag	gac a	acaca	aageet	.1445
192	tttc	etgea	agg d	cagga	agttt	c ag	gacco	ctato	ctç	gagaa	atgg	ggtt	itgaa	aag g	gaago	gtgagg	2505
193	gctg	ıtgga	ccc c	etgga	acgg	gt ac	caata	aacad	e act	gtac	ctga	tgto	cacaa	act t	itgca	aagctc	2565
194	tgcc	ettg	ggt t	cago	cccat	ic to	gggct	caaa	a tto	ccago	cctc	acca	actca	aca a	agcto	gtgtga	2625

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/925,055

DATE: 08/16/2001 TIME: 13:28:58

Input Set : A:\00-56.txt

Output Set: N:\CRF3\08162001\I925055.raw

201 202 203	ataacaccta cctcatggag ttgtggtgaa gatgaaatga agtcatgtct ttaaagtgct taatagtgcc tggtacatgg gcagtgccca ataaacggta gctatttaaa aaaaaaaaa															2685 2745 2805 2831	
205 206						Thr	Tle	Len	Thr	Wal	(21 v	Sor	Len	Δla	Alā	His	
207		ALG	1111	ъец	<u>Бе</u> и	1111	110	БСС	1111	10	,513	501	II C G	1114	15	nis	
208		Pro	Glu	Asp		Ser	Asp	Leu	Leu		His	Val	Lys	Phe	Gln	Ser	
209				20					25				-	30			
210		Asn	Phe	Glu	Asn	Ile	Leu	Thr	Trp	Asp	Ser	Gly	Pro	Glu	Gly	Thr	
211			35					40					45				
212		Asp	Thr	Val	Tyr	Ser		Glu	Tyr	Lys	Τhr		Gly	Glu	Arg	Asp	
213		50					55		_			60	_		_		
214	-	Val	Ala	Lys	Lys	_	Cys	Gln	Arg	He		Arg	Lys	Ser	Cys		
215		mb sa	17-1	~1	mb~	70	Λοπ	T 011	Th.∽	Clu	75	Tur	Ф	7/1 -	Λκα	80 Val	
216 217		IIII	vai	GIU	85	GIY	ASII	neu	1111	90	neu	тут	1 y L	Ата	Arg 95	vai	
218		Δla	Val	Ser		Glv	Glv	Ara	Ser		Thr	Lvs	Met	Thr	Asp	Ara	
219		nia	Val	100	nia	ОТУ	-3 ± y	.11.9	105	7114		Lyo		110	1101	••••	
220		Ser	Ser		Gln	His	Thr	Thr		Lvs	Pro	Pro	Asp		Thr	Cys	
221			115					120		-			125			-	
222		Ser	Lys	Val	Arg	Ser	Ile	Gln	Met	Ile	Val	His	Pro	Thr	Pro	Thr	
223		130					135					140					
224		Ile	Arg	Ala	Gly		Gly	His	Arg	Leu		Leu	Glu	Asp	Ile		
225					_	150	_	- 1	_	~ 1	155	_	_	en l	m	160	
226		Asp	Leu	Phe		Hıs	Leu	Glu	Leu		Val	Asn	Arg	Thr	Tyr 175	GIN	
227 228		11.2 -	т	~1	165	T	(2) n	71 ~ ~	C1	170	C1	Dho	Dho	C1 11	Leu	Thr	
229		HIS	Leu	180	СТУ	гуз	GIII	Ary	185	тУI	GIL	Line	1116	190	пес	1111	
230		Asp	Thr		Phe	Leu	Glv	Thr		Met	Ile	Cvs	Val		Thr	Trp	
231		р	195	514			J J	200				- 1 -	205			•	
232		Lys		Ser	Ala	Pro	Tyr	Met	Cys	Arg	Val	Lys	Thr	Leu	Prc	Asp	
233		210					215					220					
_34	Arg	Thr	Trp	Thr	Tyr	Ser	Phe	Ser	Gly	Ala		Leu	Phe	Ser	Met		
235	225					230					235					240	
236	Phe	Leu	Val	Ala		Leu	Cys	Tyr	Leu		Tyr	Arg	Туг	Val	Thr	ГÀЕ	
237	_	_		_	245	_	-	-	70	250	G1	70	17- 1	T	255	Dh.c	
238		Pro	Ala		Pro	Asn	Ser	Leu	265	val	GIT	Arg	٧aı	270	Thr	rne	
239 240	Cln	Dro	T 011	260	Dho	Tlo	aln	Glu		'/al	I.em	110	Pro		Phe	Asn	
240	GTII	FIU	275	n± y	1116	116	-111	280		v (4.1	<u> </u>	A 4 10	285			F	
242	Len	Ser		Pro	Ser	Ser	Leu		Gln	Pro	Val	Gln		Ser	Gln	Ile	
245	204	290	1				295					300	-				
244	Arg	Val	Ser	Gly	Pro	Arg	Glu	Pro	Ala	Gly	Alā	Pro	Gln	Arg	His		
245	305					310					315					320	

RAW SEQUENCE LISTING DATE: 08/16/2001 PATENT APPLICATION: US/09/925,055 TIME: 13:28:58

Input Set : A:\00-56.txt
Output Set: N:\CRF3\08162001\1925055.raw

14								_			_	_		_	- 1	_	<i>a</i> .
148		Leu	Ser	Glu	Ile		Tyr	Leu	Gly	GIn		Asp	He	Ser	He		Gin
340																	
Pro		Pro	Ser	Asn	Val	Pro	Pro	Pro	Gln		Leu	Ser	Pro	Leu		Tyr	Ala
Second S																	_
Second S		Pro	Asn	Ala	Ala	Pro	Glu	Val		Pro	Pro	Ser	Tyr		Pro	Gln	Val
170																	
Second Columbia	2.52	Thr	Pro	Glu	Ala	Glr.	Phe	Pro	Phe	Tyr	Ala	Pro	Gln	Ala	Ile	Ser	Lys
255	253																
256	254	Val	Gln	Pro	Ser	Ser	Tyr	Ala	Pro	Gln	Ala		Pro	Asp	Ser	Trp	Pro
257	255																
Secondary Seco		Pro	Ser	Tyr	Gly	Val	Cys	Met	Glu	Gly		Gly	Lys	Asp	Ser		Thr
1	257																
262 Lys Glu	260	Gly	Thr	Leu	Ser	Ser	Pro	Lys	His	Leu	Arg	Pro	Lys	Gly	Gln	Leu	Glr.
263 435 440 455 450 450 455 61u 61u 61u 61u A1a Leu A45 A46 A26 A46 A	261																
Second Columbia	262	Lys	Glu	Pro	Pro	Alā	Gly	Ser	Cys	Met	Leu	Gly	Gly	Leu	Ser	Leu	Gln
265	263																
266	264	Glu	Val	Thr	Ser	Leu	Ala	Met	Glu	Glu	Ser	Gln	Glu	Ala	Lys	Ser	Leu
267	265																
Leu His Ser Gly Glu Glu Gly Thr Pro Gln Tyr Leu Lys Gly Gln Leu Leu 269	266	His	Gln	Pro	Leu	Gly	Ile	Cys	Thr	Asp	Arg	Thr	Ser	Asp	Pro	Asn	Val
185	267																
185	268	Leu	His	Ser	Gly	Glu	Glu	Gly	Thr	Pro	Gln	Tyr	Leu	Lys	Gly	Gln	Leu
Second	269																
272 Leu Gln Pro Pro Ser Gly Pro Cys Ser Pro Ser Asp Gln Gly Pro Ser 273	270	Pro	Leu	Leu	Ser	Ser	Val	Gln	Ile	Glu	Gly	His	Pro	Met	Ser	Leu	Pro
273	271																
274 Pro Trp Gly Leu Leu Glu Ser Leu Val Cys Pro Lys Asp Glu Ala Lys 530	272	Leu	Gln	Pro	Pro	Ser	Gly	Pro	Cys	Ser	Pro	Ser	Asp	Gln	Gly	Pro	Ser
275	273																
276	274	Pro	Trp	Gly	Leu	Leu	Glu	Ser	Leu	Val	Cys	Pro	Lys	Asp	Glu	Ala	Lys
577 545	275																
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287 Pro Glu Asp Pro Ser Asp Leu Leu Gln His Val Lys Phe Gln Ser Ser 15 288 1 5 5 10 10 10 10 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 16 15 16 15 16 15 16 15 16 15 16 17 15 17 17 17 17 17 17 17 17 17 17 17 17 17 17 18 18 18 18 18 18 18 18	284	<213:	· ORG	GANIS	SM: H	-omc	sapi	iens									
288 1 5 5 10 10 15 15 289 Asn Phe Glu Asn Ile Leu Thr Trp Asp Ser Gly Pro Glu Gly Thr Pro 290	286																
288 1 5 5 10 10 15 15 289 Asn Phe Glu Asn Ile Leu Thr Trp Asp Ser Gly Pro Glu Gly Thr Pro 290	287	Pro	Glu	Asp	Pro	Ser	Asp	Leu	Leu	Gln	His	Val	Lys	Phe	Gln	Ser	Ser
290 20 25 30 191 Asp Thr Val Tyr Ser Ile Glu Tyr Lys Thr Tyr Gly Glu Arg Asp Trp 292 35 40 50 45 293 Val Ala Lys Lys Gly Cys Gln Arg Ile Thr Arg Lys Ser Cys Asn Leu 294 50 55 60 295 Thr Val Glu Thr Gly Asn Leu Thr Glu Leu Tyr Tyr Ala Arg Val Thr 296 65 70 75 297 Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg Phe	288	1				5					10					15	
290 20 25 30 191 Asp Thr Val Tyr Ser Ile Glu Tyr Lys Thr Tyr Gly Glu Arg Asp Trp 292 35 40 50 45 293 Val Ala Lys Lys Gly Cys Gln Arg Ile Thr Arg Lys Ser Cys Asn Leu 294 50 55 60 295 Thr Val Glu Thr Gly Asn Leu Thr Glu Leu Tyr Tyr Ala Arg Val Thr 296 65 70 75 297 Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg Phe	289	Asn	Phe	Glu	Aen	Ile	Leu	Thr	Trp	Asp	Ser	Gly	Pro	Glu	Gly	Th.r	Pro
292 35 40 45 293 Val Ala Lys Lys Gly Cys Gln Arg Ile Thr Arg Lys Ser Cys Asn Leu 294 50 55 60 295 Thr Val Glu Thr Gly Asn Leu Thr Glu Leu Tyr Tyr Ala Arg Val Thr 75 80 297 Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg Phe					20					25					30		
292 35 40 45 293 Val Ala Lys Lys Gly Cys Gln Arg Ile Thr Arg Lys Ser Cys Asn Leu 294 50 55 60 295 Thr Val Glu Thr Gly Asn Leu Thr Glu Leu Tyr Tyr Ala Arg Val Thr 75 80 297 Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg Phe	291	Asp	Thr	Val	Tyr	Ser	Ile	Glu	Tyr	Lys	Thr	Tyr	Gly	Glu	Arg	Asp	Trp
193 Val Ala Lys Lys Gly Cys Gln Arg Ile Thr Arg Lys Ser Cys Asn Leu 194 50 50 55 60 60 Fr Fr 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 <t< td=""><td></td><td>_</td><td></td><td>35</td><td></td><td></td><td></td><td></td><td>40</td><td></td><td></td><td></td><td></td><td>45</td><td></td><td></td><td></td></t<>		_		35					40					45			
294 50 55 60 295 Thr Val Glu Thr Gly Asn Leu Thr Glu Leu Tyr Tyr Ala Arg Val Thr 196 75 80 297 Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg Phe		Val	Ala	Lys	Lys	Gly	Cys	Gln	Arg	Ile	Thr	Arg	Lys	Ser	Cys	Asn	Leu
Thr Val Glu Thr Gly Asn Leu Thr Glu Leu Tyr Tyr Ala Arg Val Thr Ago 65 70 75 80 297 Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg Phe				•	-	-	-										
.19665707580.297Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg Phe		Thr	Val	Glu	Thr	Gly	Asn	Leu	Thr	Glu	Leu	Tyr	Tyr	Ala	Arg	Vāl	Thr
297 Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg Phe		65					7.0					75					80
		Ala	Val	Ser	Ala	Gly	Gly	Arg	Ser	Ala	Thr	Lys	Met	Thr	Asp	Arg	Phe

<210>30

<211> 484

<212> PRT

<213> Artificial Sequence

<400> 30

Errorpol: Field 223 13 required
When 213 response 15 Artificial Sequence,
A mon mandatory description or explanation
15 required in field 223.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/925,055

DATE: 08/16/2001

TIME: 13:28:59

Input Set : A:\00-56.txt

Output Set: N:\CRF3\08162001\I925055.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1093 M:258 W: Mandatory Feature missing, <220> FEATURE:

L:1093 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: